

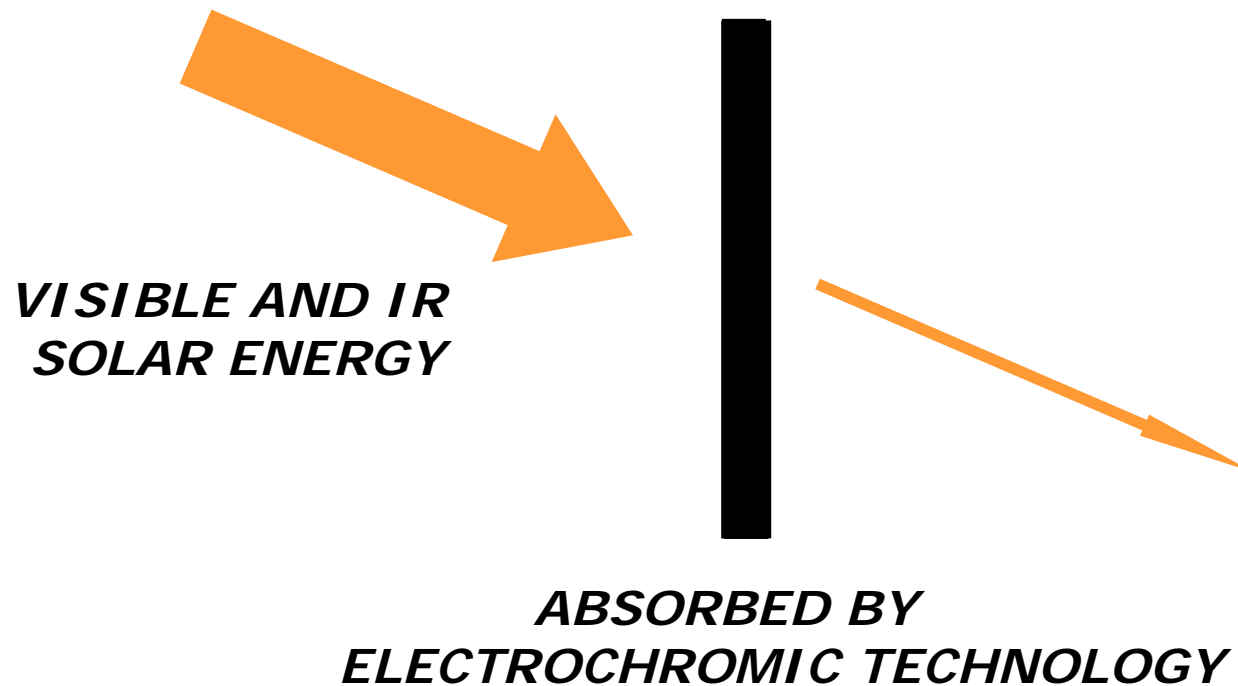
A CLEANTECH COMPANY

**ENERGY SAVINGS WITH
SMART WINDOW TECHNOLOGY**

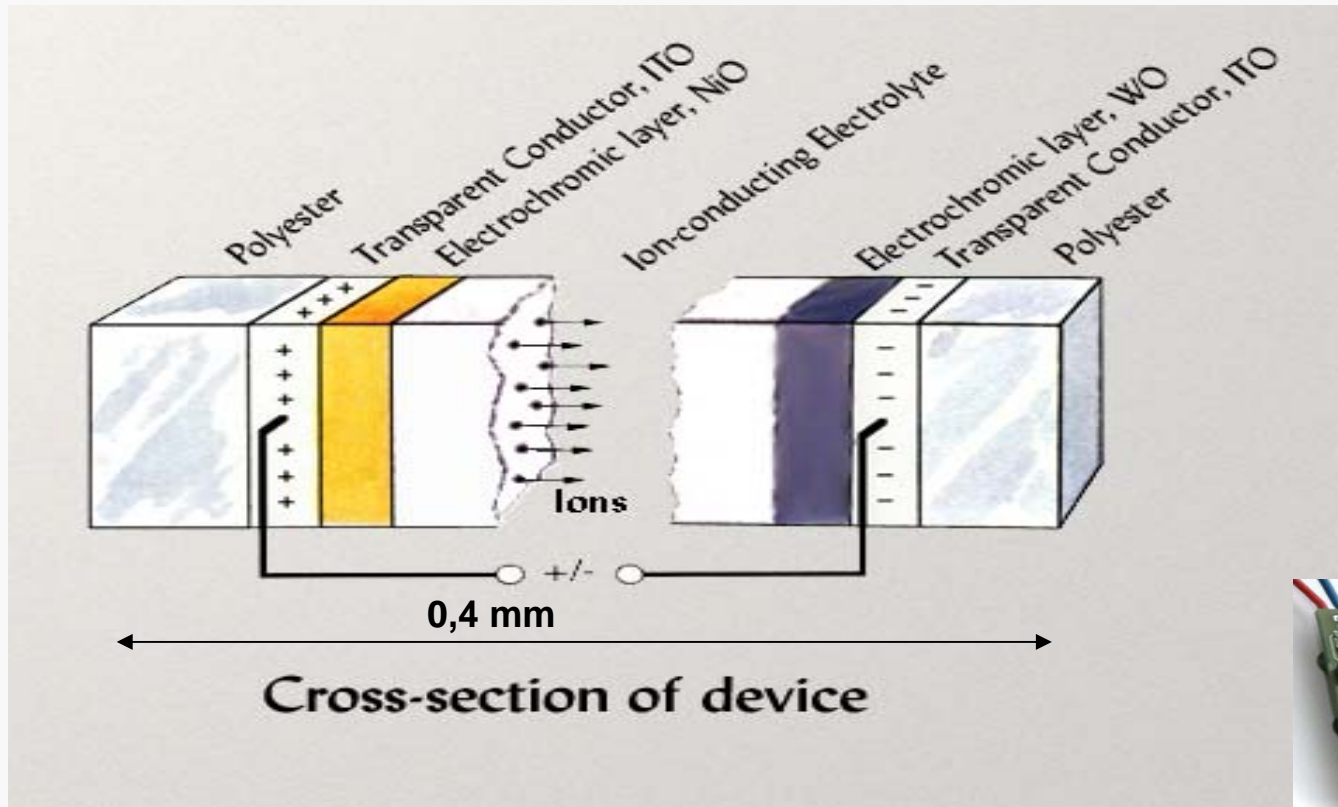
CEO Bengt Åkerström

Confidential

SMART WINDOW SOLAR HEAT GAIN CONTROL



Intelligent electrochromic system



Control unit



Commercial

***Building envelopes
goes "glazed"!***



Residential

- ✓ **Building and transport are large energy consumers**
 - Buildings - 40% of total energy consumption in EU
 - 1995-2003 energy consumption in EU related to AC increased with an average of 17% per year

- ✓ **Smart window technology - a solution which may reduce energy consumption in buildings by as much as 50%**

- Window / façade manufacturer
 - Added value / higher margin
- Construction company
 - Smart Window investment balanced by reduced investment in AC and static solar screens
- Property owner
 - Reduced operational costs
 - Increased property value / rental margins
- Tenant
 - Comfort



***The autoindustry
goes "glazed"!***



Smart window technology

- reduced energy consumption for AC
- increased passenger comfort

Electrochromic Devices (ECD)

- gradual transparency
- low voltage DC
- memory effect (low energy consumption)
- failure mode bright

COMPETING TECHNOLOGIES

Suspended Particle Devices (SPD)

- high voltage AC
- requires continuous power supply to operate
- failure mode dark

Liquid Crystal Display (LCD)

- bi-stable (dark/clear)
- low maximum transparency
- poor optical quality (hazy) in blocking mode

- Unique knowledge in production of electrochromic **thin flexible foils**
- Generic technology with high optical quality and **low production costs**
- **Patent protection** of strategic materials, control strategies and processes for volume production

Spin-Out from Uppsala University

- 2005** Operations begun
1st Customer agreement signed
Financing Round A (new investors Volvo & DuPont)
- 2006** Cleanroom production facilities & Pilot plant installed
Customer agreements
- 2007** Production process development

Patents: 5 granted + 3 filed + 2 pipe-line

Board: Founders, VC, Volvo, DuPont

Advisors: Technology & Production (US & SE),
Production equipm (JP & US), Chemistry (SE)

Staff: 14

University: Research team co-operation

1. Application engineering, customer adaptation and product integration
2. In-house production - ramp-up
3. Production license agreement
 - Patent rights
 - Know-how
 - Application rights
 - Build and cut-over of plant (certified equipment and material suppliers)
 - On-going support
 - **Electrolyte produced and delivered by ChromoGenics**

- **Capital need** \$15M US
- **Purpose**
 - Migration to high volume roll-coating production process
 - Establish international presence & partnerships
 - Build Trademark
- **Time frame** 2nd half 2008
- **Investor profile**
 - Experience and networks for international expansion and production scale-up
 - License business competence



MARKET POTENTIAL
\$20,000,000,000 US/year



CHAIRMAN
LARS-OLOF BÄCKMAN +46 708 575 775

CEO
BENGT ÅKERSTRÖM +46 18 43 00 435

